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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	USSR (Kalinin Oblast)	REPORT	
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50X1-HUM

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
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(FOR KEY SEE REVERSE)



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- Comment. On page 2, paragraph 3, for Gosovdarstvennyi Opticheskii Institut Faerman (State Capital Institute called Faerman), read Gosudarstvennyi Opticheskii Institut imeni Faerman (State Optical Institute i/n Faerman).
- In paragraph 3, Sukonov should read Sukhonov.

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SECURITY INFORMATION

REPORT

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SUPPLEMENT TO
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THIS IS UNEVALUATED INFORMATION

50X1-HUM

1. metallurgists' microscope refer
to the following

- (a) "Metallograph" - a microscope provided with integral light source and camera, and intended primarily for photographing prepared samples of metals.
- (b) "Petrographic microscope" - an instrument designed for the examination of minerals and crystalline materials and consisting of a standard microscope with circular-movable stage, polarizer and analyzer, ocular with cross hairs, and other special attachments.

☐ The term "metallurgists" microscope is a poor translation of the German term "Werkstatt" microscope and would have been better translated "machinists microscope."

50X1-HUM

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-2-

50X1-HUM

One such microscope was in the aerodynamics laboratory. It had a thread comparator attachment and a base of approximately 50 x 200 x 1000 mm. It stood about 500 mm. high.

2.

3.

The microscopes are very similar, perhaps identical, to Zeiss instruments

Zeiss personnel

who had gone to Moscow and Leningrad, were associated with the construction of these units. the greatest optical industry in the USSR is located in Leningrad and is named Gosovdarstvennyi Opticheskiy Institut Faerman (State Capital Institute called Faerman).

4.

the Schlieren equipment

is Soviet

made and it carries the same symbol as the microscopes

a sketch of the Schlieren device [see page 4].

Three Soviets, a mechanic, an engineer and a third man, installed the unit and adjusted it. It was said that these men traveled, doing installation and adjusting work, and it was rumored that they came from Moscow. As shown in figure, both ends were alike. It was designed to be used with mercury lamp or arc lights, but neither were available to them. A Soviet camera, "Fed" (a copy of the German Leica and built before the war), was adapted to the eyepiece for photographing. The Schlieren device itself was new when set up at Ostashkov.

50X1-HUM

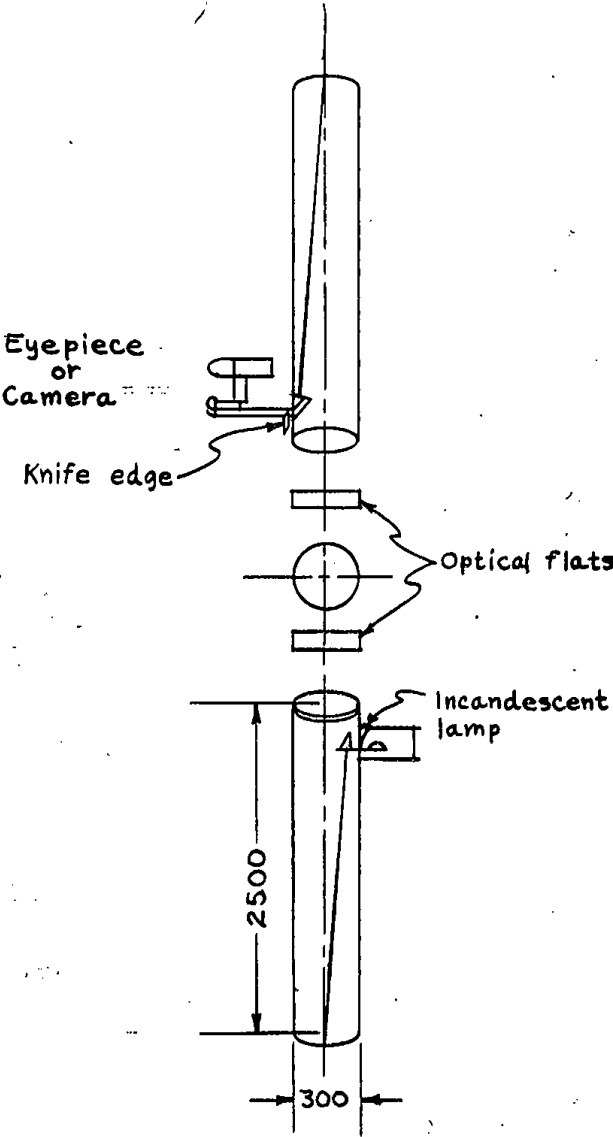
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Page 4

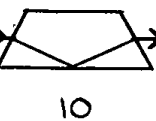
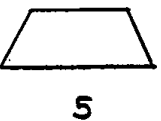
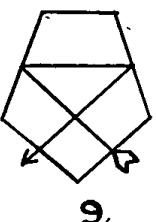
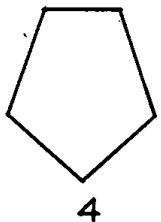
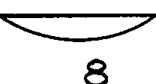
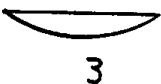
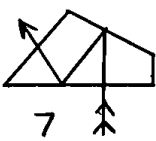
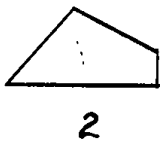
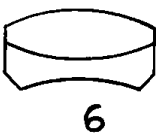


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SCHLIEREN DEVICE

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SYMBOLS OF SOVIET OPTICAL FIRMS